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AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3

QC ABSTRACT

NAME OF WORK: Asphalting to main roads and cross roads in Abbigere, sapthagiri layout and surrounding areas, Ward No.12, Shettyhalli Sub division, in Dasarahalli Zone

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials			1	1
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Block(400*150*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	RCC(M20)	Compressive Strength(7days and 28days)	1 set /1=5 cum	5.51	2	2

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ

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9	Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	5 sets /50-100 cum	94.12	8	8
10	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
11	BM	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral Aggregate	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
12	BC	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
13	BITUMEN	Ductility	One Test		1	1
		Softening Point	One Test		1	1
		Penetration	One Test		1	1
		Flash Point	One Test		1	1
		Fire Point	One Test		1	1
14	TACK COAT	Rate of spread	One Test		1	1
15	Mortar Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
16	Plaster Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2023-04-26-38** **Date: 09-02-23**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to main roads and cross roads in Abbigere, sapthagiri layout and surrounding areas, Ward No.12, Shettyhalli Sub division, in Dasarahalli Zone
Agency	:	Sri. Ashwathanarayana. No.38, Channappa Layout, Sharadambanagar behind HMT Ground, Jalahalli Village, Bangalore-560013
Customer's Reference	:	EE/DD/W.O/1818/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-02-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	07-02-23
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	Fineness by dry sieving (%)	2.1	–
2	Finess by Air permeablity method (m^2/kg,Min)	284.5	225m^2/kg, Min
3	Density (gm/cc)	3.13	–
4	Standard Consistency (%)	28%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2023-04-26-38**	**Date: 07-03-23**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.	
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.	
Project Name	:	Asphalting to main roads and cross roads in Abbigere, sapthagiri layout and surrounding areas, Ward No.12, Shettyhalli Sub division, in Dasarahalli Zone	
Agency	:	Sri. Ashwathanarayana. No.38, Channappa Layout, Sharadambanagar behind HMT Ground, Jalahalli Village, Bangalore-560013	
Customer's Reference	:	EE/DD/W.O/1818/2022-23	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	06-02-23	
Sample Type	:	Birla Super 53grade	
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6	
Date of test	:	07-02-23	
Environmental Conditions during test	:	Temperature:	26°C
		Humidity:	72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2023-04-26-38** **Date: 09-02-23**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to main roads and cross roads in Abbigere, sapthagiri layout and surrounding areas, Ward No.12, Shettyhalli Sub division, in Dasarahalli Zone
Agency	:	Sri. Ashwathanarayana. No.38, Channappa Layout, Sharadambanagar behind HMT Ground, Jalahalli Village, Bangalore-560013
Customer's Reference	:	EE/DD/W.O/1818/2022-23
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	06-02-23
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	06-02-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	214	214	1.4	98.6	90-100
3	20 mm	7254	7468	49.8	50.2	30-70
4	10 mm	4442	11910	79.4	20.6	10-35
5	4.75 mm	2685	14595	97.3	2.7	0-5
6	Pan	405	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2023-04-26-38** **Date: 09-02-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.49	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.17	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2023-04-26-38** **Date: 08-02-23**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to main roads and cross roads in Abbigere, sapthagiri layout and surrounding areas, Ward No.12, Shettyhalli Sub division, in Dasarahalli Zone
Agency	:	Sri. Ashwathanarayana. No.38, Channappa Layout, Sharadambanagar behind HMT Ground, Jalahalli Village, Bangalore-560013
Customer Reference	:	EE/DD/W.O/1818/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-02-23
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	06-02-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	237	237	4.7	95.3	90-100
3	10 mm	2544	2781	55.6	44.4	25-55
4	4.75 mm	2107	4888	97.8	2.2	0-10
5	Pan	112	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2023-04-26-38** **Date: 08-02-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.65	_
4	Bulk Density(Loose) (Kg/l)	1.53	_
5	Bulk Density(Compacted) (Kg/l)	1.57	_
6	Water Absorption(%)	0.19	_
7	Aggregate crushing Value(%)	25.6	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.5	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Date: 08-02-23

Lab ID	:	**CP-2023-04-26-38**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to main roads and cross roads in Abbigere, sapthagiri layout and surrounding areas, Ward No.12, Shettyhalli Sub division, in Dasarahalli Zone
Agency	:	Sri. Ashwathanarayana. No.38, Channappa Layout, Sharadambanagar behind HMT Ground, Jalahalli Village, Bangalore-560013
Customer's Reference	:	EE/DD/W.O/1818/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-02-23
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	06-02-23
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	24	24	2.4	97.6	90-100	90-100	90-100	95-100
3	2.36 mm	54	78	7.8	92.2	60-95	75-100	85-100	95-100
4	1.18 mm	239	317	31.7	68.3	30-70	55-90	75-100	90-100
5	600 micron	205	522	52.2	47.8	15-34	35-59	60-79	80-100
6	300 micron	203	725	72.5	27.5	5-20	8-30	12-40	15-50
7	150 micron	191	916	91.6	8.4	0-10	0-10	0-10	0-15
8	Pan	84	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2023-04-26-38**

Date: 08-02-23

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	8.0	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2023-04-26-38** **Date: 13-02-23**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to main roads and cross roads in Abbigere, sapthagiri layout and surrounding areas, Ward No.12, Shettyhalli Sub division, in Dasarahalli Zone
Agency	:	Sri. Ashwathanarayana. No.38, Channappa Layout, Sharadambanagar behind HMT Ground, Jalahalli Village, Bangalore-560013
Customer's Reference	:	EE/DD/W.O/1818/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-02-23
Sample Type /Size	:	Precast Cover Slab - 100mm Thick
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	09/02/2023
Grade of Slab	:	M20

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	98.5	22.0	20.5	25.6
2	Cover Slab-2	75.49	100.52	1.122	4475	102.6	22.9	21.3	26.7
3	Cover Slab-3	75.50	100.51	1.118	4476	100.2	22.4	20.8	26.0

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2023-04-26-38** **Date: 13-02-23**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to main roads and cross roads in Abbigere, sapthagiri layout and surrounding areas, Ward No.12, Shettyhalli Sub division, in Dasarahalli Zone
Agency	:	Sri. Ashwathanarayana. No.38, Channappa Layout, Sharadambanagar behind HMT Ground, Jalahalli Village, Bangalore-560013
Customer's Reference	:	EE/DD/W.O/1818/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-02-23
Sample Type /Size	:	Precast Cover Slab - 250mm Thick
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	09/02/2023
Grade of Slab	:	M20

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	98.5	22.0	20.5	25.6
2	Cover Slab-2	75.49	100.52	1.122	4475	102.6	22.9	21.3	26.7
3	Cover Slab-3	75.50	100.51	1.118	4476	100.2	22.4	20.8	26.0

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 20/02/2023

Lab ID	:	**CP-2023-04-26-38**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to main roads and cross roads in Abbigere, sapthagiri layout and surrounding areas, Ward No.12, Shettyhalli Sub division, in Dasarahalli Zone
Agency	:	Sri. Ashwathanarayana. No.38, Channappa Layout, Sharadambanagar behind HMT Ground, Jalahalli Village, Bangalore-560013
Customer's Reference	:	EE/DD/W.O/1818/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-02-23
Customer ID	:	Cement Concrete pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	20/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete pavement	M30	13/02/2023	20/02/2023	150.73 X 151.17 X 151.00	22785	8.895	578.4	25.4	25.6
2	Cement Concrete pavement	M30	13/02/2023	20/02/2023	151.27 X 149.05 X 150.04	22547	9.045	594.2	26.4	
3	Cement Concrete pavement	M30	13/02/2023	20/02/2023	150.63 X 149.96 X 149.09	22588	8.771	563.6	24.9	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-04-26-38** **Date: 13/03/2023**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to main roads and cross roads in Abbigere, sapthagiri layout and surrounding areas, Ward No.12, Shettyhalli Sub division, in Dasarahalli Zone
Agency	:	Sri. Ashwathanarayana. No.38, Channappa Layout, Sharadambanagar behind HMT Ground, Jalahalli Village, Bangalore-560013
Customer's Reference	:	EE/DD/W.O/1818/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-02-23
Customer ID	:	Cement Concrete pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete pavement	M30	13/02/2023	13/03/2023	151.32 X 149.16 X 151.73	22570	8.831	745.4	33.0	33.2
2	Cement Concrete pavement	M30	13/02/2023	13/03/2023	151.90 X 151.82 X 151.38	23061	8.374	757.4	32.8	
3	Cement Concrete pavement	M30	13/02/2023	13/03/2023	149.44 X 151.80 X 150.16	22685	9.038	766.4	33.8	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-04-26-38** **Date: 20/02/2023**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Asphalting to main roads and cross roads in Abbigere, sapthagiri layout and surrounding areas, Ward No.12, Shettyhalli Sub division, in Dasarahalli Zone

Agency : Sri. Ashwathanarayana. No.38, Channappa Layout, Sharadambanagar behind HMT Ground, Jalahalli Village, Bangalore-560013

Customer's Reference : EE/DD/W.O/1818/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-02-23

Customer ID : Cement Concrete pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete pavement	M30	13/02/2023	20/02/2023	150.74 X 151.44 X 149.08	22828	8.506	571.1	25.0	25.6
2	Cement Concrete pavement	M30	13/02/2023	20/02/2023	150.77 X 149.76 X 149.23	22579	8.523	605.3	26.8	
3	Cement Concrete pavement	M30	13/02/2023	20/02/2023	150.00 X 149.18 X 149.76	22378	8.190	556.3	24.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-04-26-38 **Date: 13/03/2023**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Asphalting to main roads and cross roads in Abbigere, sapthagiri layout and surrounding areas, Ward No.12, Shettyhalli Sub division, in Dasarahalli Zone

Agency : Sri. Ashwathanarayana. No.38, Channappa Layout, Sharadambanagar behind HMT Ground, Jalahalli Village, Bangalore-560013

Customer's Reference : EE/DD/W.O/1818/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-02-23

Customer ID : Cement Concrete pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete pavement	M30	13/02/2023	13/03/2023	149.94 X 149.08 X 150.90	22353	8.196	737.9	33.0	32.9
2	Cement Concrete pavement	M30	13/02/2023	13/03/2023	150.06 X 151.90 X 149.39	22794	8.351	736.1	32.3	
3	Cement Concrete pavement	M30	13/02/2023	13/03/2023	150.74 X 151.39 X 151.50	22821	8.552	761.6	33.4	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 20/02/2023

Lab ID	:	**CP-2023-04-26-38**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to main roads and cross roads in Abbigere, sapthagiri layout and surrounding areas, Ward No.12, Shettyhalli Sub division, in Dasarahalli Zone
Agency	:	Sri. Ashwathanarayana. No.38, Channappa Layout, Sharadambanagar behind HMT Ground, Jalahalli Village, Bangalore-560013
Customer's Reference	:	EE/DD/W.O/1818/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-02-23
Customer ID	:	Cement Concrete pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	20/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete pavement	M30	13/02/2023	20/02/2023	151.93 X 151.43 X 149.60	23007	8.505	591.1	25.7	25.8
2	Cement Concrete pavement	M30	13/02/2023	20/02/2023	150.46 X 151.68 X 150.19	22822	9.066	608.7	26.7	
3	Cement Concrete pavement	M30	13/02/2023	20/02/2023	151.36 X 150.88 X 151.31	22836	8.536	570.7	25.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 13/03/2023

Lab ID	:	**CP-2023-04-26-38**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to main roads and cross roads in Abbigere, sapthagiri layout and surrounding areas, Ward No.12, Shettyhalli Sub division, in Dasarahalli Zone
Agency	:	Sri. Ashwathanarayana. No.38, Channappa Layout, Sharadambanagar behind HMT Ground, Jalahalli Village, Bangalore-560013
Customer's Reference	:	EE/DD/W.O/1818/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-02-23
Customer ID	:	Cement Concrete pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete pavement	M30	13/02/2023	13/03/2023	150.74 X 149.82 X 151.50	22583	9.077	756.4	33.5	33.5
2	Cement Concrete pavement	M30	13/02/2023	13/03/2023	150.55 X 151.21 X 151.12	22763	8.408	750.3	33.0	
3	Cement Concrete pavement	M30	13/02/2023	13/03/2023	151.34 X 150.92 X 150.28	22840	8.124	774.4	33.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 22/02/2023

Lab ID	:	**CP-2023-04-26-38**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to main roads and cross roads in Abbigere, sapthagiri layout and surrounding areas, Ward No.12, Shettyhalli Sub division, in Dasarahalli Zone
Agency	:	Sri. Ashwathanarayana. No.38, Channappa Layout, Sharadambanagar behind HMT Ground, Jalahalli Village, Bangalore-560013
Customer's Reference	:	EE/DD/W.O/1818/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-02-23
Customer ID	:	Cement Concrete pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	22/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete pavement	M30	15/02/2023	22/02/2023	150.58 X 150.17 X 151.16	22612	8.303	574.7	25.4	25.6
2	Cement Concrete pavement	M30	15/02/2023	22/02/2023	151.86 X 149.05 X 149.98	22636	8.681	605.9	26.8	
3	Cement Concrete pavement	M30	15/02/2023	22/02/2023	150.08 X 149.13 X 149.52	22380	8.426	553.8	24.7	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-04-26-38** **Date: 15/03/2023**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Asphalting to main roads and cross roads in Abbigere, sapthagiri layout and surrounding areas, Ward No.12, Shettyhalli Sub division, in Dasarahalli Zone

Agency : Sri. Ashwathanarayana. No.38, Channappa Layout, Sharadambanagar behind HMT Ground, Jalahalli Village, Bangalore-560013

Customer's Reference : EE/DD/W.O/1818/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-02-23

Customer ID : Cement Concrete pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete pavement	M30	15/02/2023	15/03/2023	149.41 X 149.15 X 149.60	22286	8.872	747.3	33.5	33.1
2	Cement Concrete pavement	M30	15/02/2023	15/03/2023	150.39 X 149.85 X 150.74	22537	8.851	734.0	32.6	
3	Cement Concrete pavement	M30	15/02/2023	15/03/2023	149.65 X 151.50 X 151.81	22673	8.702	754.5	33.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-04-26-38** **Date: 22/02/2023**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to main roads and cross roads in Abbigere, sapthagiri layout and surrounding areas, Ward No.12, Shettyhalli Sub division, in Dasarahalli Zone
Agency	:	Sri. Ashwathanarayana. No.38, Channappa Layout, Sharadambanagar behind HMT Ground, Jalahalli Village, Bangalore-560013
Customer's Reference	:	EE/DD/W.O/1818/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-02-23
Customer ID	:	Cement Concrete pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	22/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete pavement	M30	15/02/2023	22/02/2023	150.59 X 151.35 X 151.40	22793	8.771	573.3	25.2	25.7
2	Cement Concrete pavement	M30	15/02/2023	22/02/2023	151.11 X 150.59 X 151.64	22756	8.913	613.6	27.0	
3	Cement Concrete pavement	M30	15/02/2023	22/02/2023	150.21 X 150.08 X 151.92	22544	8.414	561.2	24.9	

* The results obtained are satisfactory as per standard requirements.

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-04-26-38**	**Date: 15/03/2023**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.	
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.	
Project Name	:	Asphalting to main roads and cross roads in Abbigere, sapthagiri layout and surrounding areas, Ward No.12, Shettyhalli Sub division, in Dasarahalli Zone	
Agency	:	Sri. Ashwathanarayana. No.38, Channappa Layout, Sharadambanagar behind HMT Ground, Jalahalli Village, Bangalore-560013	
Customer's Reference	:	EE/DD/W.O/1818/2022-23	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	17-02-23	
Customer ID	:	Cement Concrete pavement	
Sample Type /Size	:	150X150X150 mm	
Sample grade/Age	:	M30 / 28 Days Compressive Strength	
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5	
Date of test	:	15/03/2023	

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete pavement	M30	15/02/2023	15/03/2023	149.37 X 149.90 X 150.27	22391	8.255	760.3	34.0	33.4
2	Cement Concrete pavement	M30	15/02/2023	15/03/2023	151.99 X 149.09 X 149.47	22660	8.931	746.8	33.0	
3	Cement Concrete pavement	M30	15/02/2023	15/03/2023	150.45 X 151.47 X 151.58	22789	8.131	758.9	33.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 19/02/2023

Lab ID	:	CP-2023-04-26-38
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to main roads and cross roads in Abbigere, sapthagiri layout and surrounding areas, Ward No.12, Shettyhalli Sub division, in Dasarahalli Zone
Agency	:	Sri. Ashwathanarayana. No.38, Channappa Layout, Sharadambanagar behind HMT Ground, Jalahalli Village, Bangalore-560013
Customer's Reference	:	EE/DD/W.O/1818/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-02-23
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	18/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	11/02/2023	18/02/2023	151.39 X 149.96 X 149.35	22703	8.298	422.7	18.6	18.4
2	M20 Concrete	M20	11/02/2023	18/02/2023	150.40 X 150.38 X 150.96	22617	8.828	418.2	18.5	
3	M20 Concrete	M20	11/02/2023	18/02/2023	151.43 X 150.80 X 151.62	22836	8.700	415.1	18.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-04-26-38** **Date: 11/03/2023**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to main roads and cross roads in Abbigere, sapthagiri layout and surrounding areas, Ward No.12, Shettyhalli Sub division, in Dasarahalli Zone
Agency	:	Sri. Ashwathanarayana. No.38, Channappa Layout, Sharadambanagar behind HMT Ground, Jalahalli Village, Bangalore-560013
Customer's Reference	:	EE/DD/W.O/1818/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-02-23
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	11/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	11/02/2023	11/03/2023	150.74 X 151.17 X 151.55	22788	8.379	542.5	23.8	23.2
2	M20 Concrete	M20	11/02/2023	11/03/2023	151.92 X 150.39 X 150.46	22847	8.375	520.1	22.8	
3	M20 Concrete	M20	11/02/2023	11/03/2023	150.50 X 150.35 X 149.67	22628	8.606	523.4	23.1	

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TEST REPORT FOR SAND MASONRY MORTARS

Lab ID	:	**CP-2023-04-26-38** **Date: 20-02-23**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to main roads and cross roads in Abbigere, sapthagiri layout and surrounding areas, Ward No.12, Shettyhalli Sub division, in Dasarahalli Zone
Agency	:	Sri. Ashwathanarayana. No.38, Channappa Layout, Sharadambanagar behind HMT Ground, Jalahalli Village, Bangalore-560013
Customer's Reference	:	EE/DD/W.O/1818/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-02-23
Sample Type	:	Fine Aggregate, M.Sand for Mortar
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	17-02-23
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	4.75 mm	0	0	0	100	100
2	2.36 mm	85	85	8.5	91.5	90-100
3	1.18 mm	200	285	28.5	71.5	70-100
4	600 micron	146	431	43.1	56.9	40-100
5	300 micron	117	547.5	54.8	45.3	5-70
6	150 micron	413	960	96.0	4.0	0-15
7	Pan	40	1000	100.0	0.0	0

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TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : **CP-2023-04-26-38** **Date: 20-02-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	3.18	–
2	Specific Gravity	2.51	–
3	Material finer than 75 micron(%)	12.2	Crushed Fine aggregate Max 15%
4	Compacted Bulk Density (Kg/litre)	1.90	–
5	Loose Bulk Density (Kg/litre)	1.73	–

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TEST REPORT FOR PLASTER SAND

Lab ID	:	CP-2023-04-26-38 **Date: 21-02-23**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to main roads and cross roads in Abbigere, sapthagiri layout and surrounding areas, Ward No.12, Shettyhalli Sub division, in Dasarahalli Zone
Agency	:	Sri. Ashwathanarayana. No.38, Channappa Layout, Sharadambanagar behind HMT Ground, Jalahalli Village, Bangalore-560013
Customer's Reference	:	EE/DD/W.O/1818/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-02-23
Sample Type	:	Plaster Sand
Reference to BIS codes	:	IS: 383 : 2016 (Specification for Coarse and fine Aggregates) IS1542:1992 (RA 2019) (Sand for Plaster - Specification) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	17-02-23
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 1542:1992
1	10 mm	0	0	0	100	100
2	4.75 mm	35	35	3.5	96.5	95-100
3	2.36 mm	12	47	4.7	95.3	95-100
4	1.18 mm	42	89	8.9	91.1	90-100
5	600 micron	100	189	18.9	81.1	80-100
6	300 micron	215	404	40.4	59.6	20-65
7	150 micron	500	904	90.4	9.6	0-15
8	Pan	96	1000	100	0	---

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2023-04-26-38** **Date: 21-02-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.8	–
2	Specific Gravity	2.56	–
3	Material finer than 75 micron(%)	9.6	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Date: 20-02-23

Lab ID	:	**CP-2023-04-26-38**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to main roads and cross roads in Abbigere, sapthagiri layout and surrounding areas, Ward No.12, Shettyhalli Sub division, in Dasarahalli Zone
Agency	:	Sri. Ashwathanarayana. No.38, Channappa Layout, Sharadambanagar behind HMT Ground, Jalahalli Village, Bangalore-560013
Customer's Reference	:	EE/DD/W.O/1818/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-02-23
Sample Type/Size	:	Solid concrete blocks size (400X150X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2020) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	14-02-23

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	402	149	201	12039	22.094	1835.1	1849.3	Not less than 1800Kg/m^3
2	399	148	201	11869	22.514	1896.8		
3	400	151	202	12201	22.157	1816.0		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	24.91	23.69	4.89	4.25	Shall not be more than 10% by mass
2	25.57	24.48	4.28		
3	24.44	23.57	3.59		

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Date: 20-02-23

Lab ID : CP-2023-04-26-38

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	149	199	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	400	153	199	
3	401	149	203	
4	400	150	201	
5	403	150	203	
6	401	150	203	
7	401	153	201	
8	399	152	203	
9	403	152	199	
10	403	151	201	
11	402	152	200	
12	399	153	201	
13	402	152	200	
14	403	149	202	
15	401	150	202	
16	403	151	200	
17	403	151	201	
18	401	149	202	
19	402	153	203	
20	400	149	202	
Average of 20	401	151	201	

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Lab ID : CP-2023-04-26-38 **Date: 20-02-23**

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	152	60809	307.1	5.1	5.3
2	403	152	61130	313.1	5.1	
3	402	149	59998	302.2	5.0	
4	404	153	61602	323.9	5.3	
5	402	150	60155	338.4	5.6	
6	399	149	59631	321.9	5.4	
7	401	151	60394	312.8	5.2	
8	402	152	61149	330.7	5.4	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

* The Results Obtained are Satisfactory as per Standard Requirements

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TEST RESULTS OF GRADATION FOR WMM

Lab ID : CP-RW-2023-04-26-38 **Date: 08-03-23**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Asphalting to main roads and cross roads in Abbigere, sapthagiri layout and surrounding areas, Ward No.12, Shettyhalli Sub division, in Dasarahalli Zone

Agency : Sri. Ashwathanarayana. No.38, Channappa Layout, Sharadambanagar behind HMT Ground, Jalahalli Village, Bangalore-560013

Customer Reference : EE/DD/W.O/1818/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-03-23

Type of Mix : WMM (Wet Mix Macadam)

Date of Test : 06-03-23

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	298	298	2.7	97.3	95-100
22.4	2078	2376	21.6	78.4	60-80
11.2	2314	4690	42.6	57.4	40-60
4.75	2098	6788	61.7	38.3	25-40
2.36	1987	8775	79.8	20.2	15-30
0.6	547	9322	84.7	15.3	8-22
0.075	1256	10578	96.2	3.8	0-5

* The results obtained are satisfactory as per standard requirements.

Note:-

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	CP-RW-2023-04-26-38 **Date: 08-03-23**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to main roads and cross roads in Abbigere, sapthagiri layout and surrounding areas, Ward No.12, Shettyhalli Sub division, in Dasarahalli Zone
Agency	:	Sri. Ashwathanarayana. No.38, Channappa Layout, Sharadambanagar behind HMT Ground, Jalahalli Village, Bangalore-560013
Customer Reference	:	EE/DD/W.O/1818/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-03-23
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test	:	06-03-23

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.6	

* The results obtained are satisfactory as per standard requirements.

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2023-04-26-38** **Date: 08-03-23**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to main roads and cross roads in Abbigere, sapthagiri layout and surrounding areas, Ward No.12, Shettyhalli Sub division, in Dasarahalli Zone
Agency	:	Sri. Ashwathanarayana. No.38, Channappa Layout, Sharadambanagar behind HMT Ground, Jalahalli Village,
Customer Reference	:	EE/DD/W.O/1818/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-03-23
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test	:	06-03-23

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	25.3%	

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF GRADATION FOR BM
(IS 2386:(Part 1) 1963 (RA2011)

Date: 15-03-23

Lab ID	:	**CP-RW-2023-04-26-38**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to main roads and cross roads in Abbigere, sapthagiri layout and surrounding areas, Ward No.12, Shettyhalli Sub division, in Dasarahalli Zone
Agency	:	Sri. Ashwathanarayana. No.38, Channappa Layout, Sharadambanagar behind HMT Ground, Jalahalli Village, Bangalore-560013
Customer Reference	:	EE/DD/W.O/1818/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-03-23
Type of Mix	:	BM-Plant (Bituminous Macadam)
Date of Test	:	13-03-23
Weight of Sample(gm)	:	5000

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0	100	100
19	168	168	3.4	96.6	90-100
13.2	525	693	13.9	86.1	56-88
4.75	2830	3523	70.5	29.5	16-36
2.36	925	4448	89.0	11.0	4-19
0.3	369	4817	96.3	3.7	2-10
0.075	125	4942	98.8	1.2	0-8
PAN	58	5000	100.0	0.0	0

* The results obtained are satisfactory as per standard requirements.

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS MACADAM

Lab ID	:	**CP-RW-2023-04-26-38** **Date: 16-03-23**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to main roads and cross roads in Abbigere, sapthagiri layout and surrounding areas, Ward No.12, Shettyhalli Sub division, in Dasarahalli Zone
Agency	:	Sri. Ashwathanarayana. No.38, Channappa Layout, Sharadambanagar behind HMT Ground, Jalahalli Village, Bangalore-560013
Customer Reference	:	EE/DD/W.O/1818/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-03-23
Type of Mix	:	BM (Bituminous Macadam)
Date of Test	:	13-03-23

Table 500-6 : Physical Requirements fo Coarse Aggregate for Bituminous Macadam

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	13.9	Combined Flakiness & Elongation Index for BM is Maximum 35%	IS:2386 Part I
	Elongation Index	7.4		
Strength	Aggregate Impact Value	25.9	Maximum 30%	IS:2386 Part IV
Specific gravity	Specific gravity	2.61	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.19	Maximum 2%	IS:2386 Part III

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2023-04-26-38** **Date: 16-03-23**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to main roads and cross roads in Abbigere, sapthagiri layout and surrounding areas, Ward No.12, Shettyhalli Sub division, in Dasarahalli Zone
Agency	:	Sri. Ashwathanarayana. No.38, Channappa Layout, Sharadambanagar behind HMT Ground, Jalahalli Village, Bangalore-560013
Customer Reference	:	EE/DD/W.O/1818/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-03-23
Type of Mix	:	BM(Bitumnous Macadam)
Date of Test	:	13-03-23
Type of Binder	:	60/70
% of Binder Used	:	3.3%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	6.6 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	97.5	2.5	97.7	Minimum Retained Coating 95%
2	97.0	3.0		
3	98.5	1.5		

* The results obtained are satisfactory as per standard requirements.

Note:-
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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2023-04-26-38**	**Date: 16-03-23**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.	
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.	
Project Name	:	Asphalting to main roads and cross roads in Abbigere, sapthagiri layout and surrounding areas, Ward No.12, Shettyhalli Sub division, in Dasarahalli Zone	
Agency	:	Sri. Ashwathanarayana. No.38, Channappa Layout, Sharadambanagar behind HMT Ground, Jalahalli Village, Bangalore-560013	
Customer Reference	:	EE/DD/W.O/1818/2022-23	
Source of Sample	:	Hot Mix Plant, Bangalore	
Sample Condition	:	Satisfactory	
Date of Receipt	:	13-03-23	
Type of Mix	:	BM (Bituminous Mecadam)	
Date of Test	:	13-03-23	

The results of the tests conducted on the Bituminous Macadam mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.25	11.93	9KN(Min)
2	Marshal flow at 60°C, mm	3.56	3.89	2-4
3	Percent air Voids	4.59	4.19	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.58	14.73	13-15
5	Percent Voids filled with Bitumen(VFB %)	68.93	70.52	65-75
6	Density, g/cc	2.48	2.50	–

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2023-04-26-38**	**Date: 23-03-23**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.	
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.	
Project Name	:	Asphalting to main roads and cross roads in Abbigere, sapthagiri layout and surrounding areas, Ward No.12, Shettyhalli Sub division, in Dasarahalli Zone	
Agency	:	Sri. Ashwathanarayana. No.38, Channappa Layout, Sharadambanagar behind HMT Ground, Jalahalli Village, Bangalore-560013	
Customer Reference	:	EE/DD/W.O/1818/2022-23	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	21-03-23	
Type of Mix	:	BM (Bituminous Macadam)	
Date of Test	:	21-03-23	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	485	484
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1}$ X 100	3.4	3.60
7	Average percentage	%	3.50	

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Lab ID : **CP-RW-2023-04-26-38** **Date: 23-03-23**

AFTER EXTRACTION(Trail-1)

Weight of Sample : 485 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	39	39	8.0	92.0	90-100
13.2	149	188	38.8	61.2	56-88
4.75	195	383	79.0	21.0	16-36
2.36	32	415	85.6	14.4	4-19
0.3	30	445	91.8	8.2	2-10
0.075	34	479	98.8	1.2	0-8

AFTER EXTRACTION(Trail-2)

Weight of Sample : 484 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	38	38	7.9	92.1	90-100
13.2	147	185	38.2	61.8	56-88
4.75	191	376	77.7	22.3	16-36
2.36	28	404	83.5	16.5	4-19
0.3	35	439	90.7	9.3	2-10
0.075	30	469	96.9	3.1	0-8

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2023-04-26-38** **Date: 20-03-23**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to main roads and cross roads in Abbigere, sapthagiri layout and surrounding areas, Ward No.12, Shettyhalli Sub division, in Dasarahalli Zone
Agency	:	Sri. Ashwathanarayana. No.38, Channappa Layout, Sharadambanagar behind HMT Ground, Jalahalli Village, Bangalore-560013
Customer Reference	:	EE/DD/W.O/1818/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-03-23
Type of Mix	:	BC-Plant (Bituminous Concrete)
Date of Test	:	17-03-23
Oven Dry Weight	:	5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	21	21	0.4	99.6	90-100
9.5	688	709	14.2	85.8	70-88
4.75	1224	1933	38.7	61.3	53-71
2.36	799	2732	54.6	45.4	42-58
1.18	379	3111	62.2	37.8	34-48
0.6	349	3460	69.2	30.8	26-38
0.3	489	3949	79.0	21.0	18-28
0.15	401	4350	87.0	13.0	12-20
0.075	428	4778	95.6	4.4	4-10
PAN	222	5000	100	0.0	0

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2023-04-26-38**	**Date: 20-03-23**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.	
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.	
Project Name	:	Asphalting to main roads and cross roads in Abbigere, sapthagiri layout and surrounding areas, Ward No.12, Shettyhalli Sub division, in Dasarahalli Zone	
Agency	:	Sri. Ashwathanarayana. No.38, Channappa Layout, Sharadambanagar behind HMT Ground, Jalahalli Village, Bangalore-560013	
Customer Reference	:	EE/DD/W.O/1818/2022-23	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	17-03-23	
Type of Mix	:	BC(Bitumenous Concrete)	
Date of Test	:	17-03-23	

Type of Binder	:	60/70
% of Binder Used	:	5.4%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.8 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	97.5	2.5	98.0	Minimum Retained Coating 95%
2	98.0	2.0		
3	98.5	1.5		

* The results obtained are satisfactory as per standard requirements.

Note:-
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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID	:	**CP-RW-2023-04-26-38**	**Date: 20-03-23**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.	
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.	
Project Name	:	Asphalting to main roads and cross roads in Abbigere, sapthagiri layout and surrounding areas, Ward No.12, Shettyhalli Sub division, in Dasarahalli Zone	
Agency	:	Sri. Ashwathanarayana. No.38, Channappa Layout, Sharadambanagar behind HMT Ground, Jalahalli Village, Bangalore-560013	
Customer Reference	:	EE/DD/W.O/1818/2022-23	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	17-03-23	
Type of Mix	:	BC (Bituminous Concrete)	
Date of Test	:	17-03-23	

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	10.7	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	11.7		
Strength	Aggregate Impact Value	22.6	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.54	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.32	Maximum 2%	IS:2386 Part III

* The results obtained are satisfactory as per standard requirements.

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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2023-04-26-38** **Date: 20-03-23**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to main roads and cross roads in Abbigere, sapthagiri layout and surrounding areas, Ward No.12, Shettyhalli Sub division, in Dasarahalli Zone
Agency	:	Sri. Ashwathanarayana. No.38, Channappa Layout, Sharadambanagar behind HMT Ground, Jalahalli Village, Bangalore-560013
Customer Reference	:	EE/DD/W.O/1818/2022-23
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	17-03-23
Type of Mix	:	BC (Bituminous Concrete)
Date of Test	:	17-03-23

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.76	11.63	10KN(min)
2	Marshal flow at 60°C, mm	3.72	3.65	2-4
3	Percent air Voids	4.98	4.85	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.77	14.89	13-15
5	Percent Voids filled with Bitumen(VFB %)	72.75	72.63	65-75
6	Density, g/cc	2.28	2.26	–

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	CP-RW-2023-04-26-38	**Date: 25-03-23**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.	
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.	
Project Name	:	Asphalting to main roads and cross roads in Abbigere, sapthagiri layout and surrounding areas, Ward No.12, Shettyhalli Sub division, in Dasarahalli Zone	
Agency	:	Sri. Ashwathanarayana. No.38, Channappa Layout, Sharadambanagar behind HMT Ground, Jalahalli Village, Bangalore-560013	
Customer Reference	:	EE/DD/W.O/1818/2022-23	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	24-03-23	
Type of Mix	:	BC (Bituminous Concrete)	
Date of Test	:	24-03-23	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	474.5	474
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	5.50	5.60
7	Average percentage	%	5.6	

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Lab ID : **CP-RW-2023-04-26-38** **Date: 25-03-23**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 474.5

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	5	5	1.1	98.9	90-100
9.5	99	104	21.9	78.1	70-88
4.75	103	207	43.6	56.4	53-71
2.36	51	258	54.4	45.6	42-58
1.18	26	284	59.9	40.1	34-48
0.6	21	305	64.3	35.7	26-38
0.3	53	358	75.4	24.6	18-28
0.15	38	396	83.5	16.5	12-20
0.075	42	438	92.3	7.7	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 474

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	8	8	1.7	98.3	90-100
9.5	101	109	23.0	77.0	70-88
4.75	106	215	45.4	54.6	53-71
2.36	53	268	56.5	43.5	42-58
1.18	25	293	61.8	38.2	34-48
0.6	23	316	66.7	33.3	26-38
0.3	54	370	78.1	21.9	18-28
0.15	32	402	84.8	15.2	12-20
0.075	31	433	91.4	8.6	4-10

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Format No: CP/TF/01

TEST REPORT ON BITUMEN

Lab ID	:	**CP-RW-2023-04-26-38** **Date: 13-03-23**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to main roads and cross roads in Abbigere, sapthagiri layout and surrounding areas, Ward No.12, Shettyhalli Sub division, in Dasarahalli Zone
Agency	:	Sri. Ashwathanarayana. No.38, Channappa Layout, Sharadambanagar behind HMT Ground, Jalahalli Village, Bangalore-560013
Customer's Reference	:	EE/DD/W.O/1818/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-03-23
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-2021, IS: 1202-1220(1978) (Reaffirmed-2019)
Date of Test	:	10-03-23

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	64	Min 45mm
2	Softening Point, °C	51.2	Min. 47°C
3	Ductility, cm	98	Min. 40cm
4	Flash point, °C	312	Min. 220°C
	Fire point, °C	322	

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DETERMINATION OF RATE OF SPREAD TACK COAT

Date: 25-03-23

Lab ID	:	CP-RW-2023-04-26-38
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to main roads and cross roads in Abbigere, sapthagiri layout and surrounding areas, Ward No.12, Shettyhalli Sub division, in Dasarahalli Zone
Agency	:	Sri. Ashwathanarayana. No.38, Channappa Layout, Sharadambanagar behind HMT Ground, Jalahalli Village, Bangalore-560013
Customer Reference	:	EE/DD/W.O/1818/2022-23
Sample Condition	:	Satisfactory
Date of Receipt	:	24-03-23
Type of Mix	:	Tack coat
Date of Test	:	24-03-23

SLNo	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.803	0.771
5	Weight of tack Coat (d=c-b)	Kg	0.023	0.023
6	Rate of spread of tack coat	Kg/sq.m	0.256	0.256
7	Average	Kg/sq.m	0.256	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

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